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   Autore Bell Charles

   Titolo Beginning Sensor Networks with Arduino and Raspberry Pi / / by Charles Bell

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   Collana Technology in Action

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   Note generali Includes index.

   Nota di contenuto Introduction to sensor networks -- Tiny talking modules: an introduction to XBee wireless modules -- Arduino-based sensor nodes -- Raspberry Pi-based sensor nodes -- Where to put it all: storing sensor data -- Turning your Raspberry Pi into a database server -- MySQL and Arduino: united at last! -- Building your network: Arduino wireless aggregator + wireless sensor node + Raspberry Pi server -- Planning wireless sensor networks.

Sommario/riassunto   Beginning Sensor Networks with Arduino and Raspberry Pi teaches you how to build sensor networks with Arduino, Raspberry Pi, and XBee radio modules, and even shows you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! First you'll learn about the different types of sensors and sensor networks, including how to build a simple XBee network. Then you'll walk through building an Arduino-based temperature sensor and data collector, followed by building a Raspberry Pi-based sensor node. Next you'll learn different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll learn how to put it all together by connecting your Arduino sensor node to your new Raspberry Pi database server. If you want to see how well Arduino and Raspberry Pi can get along, especially to create a sensor network, then Beginning Sensor Networks with Arduino and Raspberry Pi is just the book you need.